

Drayer D. Sivertsen

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Education

Bachelor of Science, Computer Science; GPA 3.95
Washington State University, Pullman, WA
President's Honor Roll, 2020 - 2022

Expected May 2023

Work Experience

Undergraduate Research Assistant
Washington State University, Pullman, WA

Current

- Familiarized with machine learning research principles and recent publications to better understand the current work being done with machine learning and its applications in computer vision

Cloud Support Associate Intern
Amazon Web Services, Seattle, WA

May 2022 – August 2022

- Demonstrated excellence in AWS CI/CD pipelines, AWS CLI, and AWS service APIs, resulting in an Associate AWS Developer certification
- Developed EC2 launch scripts to configure the instance and install an Apache web server with PHP and MariaDB, resulting in a fully functional web application
- Designed and hosted a WordPress site deployed through AWS Elastic Beanstalk to showcase skills acquired through the internship
- Experimented with AWS best practice by throttling a running web service to the point of failure and then configuring elastic load balancing to remediate the traffic effectively
- Collaborated with peers and the Amazon Web Services global team of full-time professionals as part of the AWS Cloud Support team to serve high-value customers by providing outsourced cloud expertise

Projects

Dell S3 Client Library

Current

- Led a team in collaboration with Dell engineers to develop open-source S3 client libraries in Python and .NET to support metadata searching for Dell's ObjectScale product

Linux File System

May 2022

- Designed and implemented a Linux-compatible EXT2 file system using the C programming language to better understand the operating system's underlying mechanisms
- Replicated the functionality and operations of the Linux file system by emulating file system data structures for SuperBlock, GroupDescriptor, Bitmaps, Inode, and Directory

NASA Astronomy Picture of the Day

June 2022

- Utilized NASA's API to implement a web application for the astronomy picture of the day (APOD) using Python and Flask
- Integrated an API key to fetch data wirelessly from NASA servers and display contents to the application to encourage learning about the cosmos

Fitness Website, Link: sarahpfitness.com/

Dec 2021

- Leveraged HTML, CSS, and JavaScript to build and deploy an industry-grade website marketing personal training products visited by over 18,000 followers
- Collaborated with client to design a website style that was modern, functional, and fit her vision for the business while also attracting customers
- Developed a contact portal for customers to send emails securely without compromising client's personal email addresses

Technical Skills

C, C++, Python, C#, Haskell, HTML, CSS, Linux (Ubuntu), AWS Services, Flask, Svelte, Git
Certifications: AWS Certified Developer – Associates, AWS Cloud Practitioner

Leadership

Association for Computer Machinery | Executive Chair
Linux Users Group | Vice President